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APR 2 5 2001

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/507,968B

TIME: 13:20:10

Input Set : A:\09507968 SEQ LIST.txt Output Set: N:\CRF3\04122001\I507968B.raw

- 3 -:11. → APPLICANT: Yu et al.
- 5 (12) TITLE OF INVENTION: Neutrokine-alpha and Neutrokine-alpha Splice Variants
- -:13] FILE REFERENCE: PF343P3
- 14) CURRENT APPLICATION NUMBER: 09/507,968B
- -:141 CURPENT FILING TATE: 200)-02-22
- 12 -: 150 PRIOR APPLICATION NUMBER 60, 122, 388
- 13 -0151 PRIOR FILING DATE: 1999-03-01
- 15 RISS PRIOR APPLICATION NUMBER: 60/124,097
- 16 151 * PFIOR FILING DATE: 1999-03-12
- 18 <150 > PRIOR APPLICATION NUMBER: 60/126,599
- 19 <151 PPIOR FILING DATE: 1999-03-26
- 21 <150 PRIOR APPLICATION NUMBER 60/127,598
- 22 (151 PRIOR FILING DAME: 1999-04-02
- 24 R150 PRIOR APPLICATION NUMBER: 60/130,412
- 25 <151 PRIOR FILING DATE 1999-04-16
- 27 <150 PRIOR APPLICATION NUMBER: 60/130,696
- 28 -: 151 PRIOR FILING DATE: 1999-04-23
- 30 <150 PRIOR APPLICATION NUMBER : 60/131,278
- 31 <151 PRIOR FILING DATE 1999-04-27
- 33 <150 PRIOR APPLICATION NUMBER 03,/255,794
- 34 <151 PFIOF FILING DATE 1999-02-23
- 36 <150 PRIOR APPLICATION NUMBER : 60/131,673
- 37 K151 PRIOR FILING DATE 1999-04-29
- 33 (150 PRIOR APPLICATION NUMBER 60/136,784
- 4) <151 PRIOR FILING DATE: 1999-05-28
- 42 <150 PRIOR APPLICATION NUMBER 60/142,659 43 0151 PRICE FILING DATE: 1999-07-06
- 45 -: 150 PRIOF APPLICATION NUMBER 60,/145,824
- 46 <151 PRIOR FILING DATE: 1999-07-27
- 48 -: 150 PRIOR APPLICATION NUMBER: 60/167,239 49 <151 - PRIOF FILING DAIE: 1999-11-24
- 51 -: 150 PRIOR APPLICATION NUMBER: 60/168,624
- 52 <151 PRIOR FILING DATE | 1999-12-03
- $54 < 150 \times$ PFIOR APPLICATION NUMBER -60/171,108
- 55 <151 PRIOR FILING DATE: 1999-12-16
- 57 -: 150 > PRIOF APPLICATION NUMBER: 60/171,626
- 58 k151/ PRIOR FILING DATE 1999-12-23
- 60 <150 PPIOR APPLICATION NUMBER: 60/176,015
- 61 -: 151 PFIOF FILING DATE: 2000-01-14
- 64 <160: NUMBER OF SEQ ID NOS: 38
- 66 <170: SOFTWARE: Patentin Ver. 2.1
- 68 3210 SEQ ID NO: 1
- 69 <211: LENGTH: 1100
- 70 (212) TYPE: DNA
- 71 <213: ORGANISM: Homo sapiens
- 73 -: 120. FEATURE:
- 74 <221> NAME/KEY: CDS

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/507,968B

DATE: 04/13/2001
TIME: 13:20:10

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Output Set: N:\CRF3\04122001\I507968B.raw

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83				-				Met	Asp	Asp	Ser	Thr	-Glu	. Arg	Glu	. 3ln	
84								1				5	5				
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8~	Ser	Arg	Leu	Thr	Ser	Cys	Leu	Lys	Lys	Arg	Glu	Glu	Met	Lys	Г÷Л	Lys	
8 3	10					15					20					25	
		-	-	too					-	-							249
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97					3.0					35					40		
				gga													317
	Ser	Lys	Asp	Gly	Lys	Leu	Leu	Ala		Thr	Leu	Leu	Leu		Leu	Leu	
96				45					50					55			2.5
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																Gly	
110	ı			125					130					135			
118	cca	gaa	gaa	aca	gto	act	caa	gac	tgc	ttg	caa	ctg	ratt	gca	gac	agt	605
11:	Pro	Glu	Glu	Thr	Val	Thr	Gln	Asp	Cys	Leu	Glr	. Leu	Ile	Ala	Asp	Ser	
120	}		140					145					150				
	-															ctt	653
				Thr	Ile	Gln	_	_	Ser	Tyr	Thr			Pro	Trp	Leu	
124		155					160					165					
		_					_			_	-					ata	701
			Phe	Lys	Arg	_		Ala	Leu	Glu			GIT	Asn	Lys	Ile	
	170					175				_ 4	180					185	740
	_															tat	749
		Val	yS	Glu		15 LY	тут	Phe	Phe	195		СТУ	II I E	. val	200		
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		-	_	Thr		_	-										121
136		nap	177.2	205	•	Ата	rie C	Gry	210		110	GIII	. nig	215	-	V U I	
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RAW SEQUENCE LISTING DATE: 04/13/2001 PATENT APPLICATION: US/09/507,968B TIME: 13:20:10

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Output Set: N:\CRF3\04122001\I507968B.raw

14	2 caa	aat	atg	aat.	gaa	aca	cta	CCC	aat	aat	tec	tgc	tat	tca	get	gge	893
14	3 Jln	Asn	Met	Pro	Glu	Thr	Leu	Pro	Asn	Asn	Ser	Cys	Tyr	Ser	Ala	Зlу	
14	4	235					240					245					
14	h att	чса	aaa	otg	gaa	gaa	gga	gat	gaa	ata	caa	ott	gca	ata	cca	aga	941
14	lle	Ala	Lys	Leu	Glu	Glu	Gly	Asp	Glu	Leu	31 n	Leu	Ala	Ile	Pro	Arg	
14	3 250					255					260					265	
15	Jua	uat	gea	caa	ata	t.ca	ctg	gat	gga	gat	gtc	aca	ttt	ttt	ggt	gra	989
15	i Blu	Asn	Ala	Gln	Ile	Ser	Leu	Asp	Gly	_	Val	Thr	Phe	Phe	Gly	Ala	
15					270					275					280		
15	i '. '.g	aaa	ctg	atg	tga	ccta	ctt .	adad	catg	to to	gtag	ctat	t tt	cata	cctt		1041
	5 Leu	Lys	Leu														
15		285															
		firtotigtado totaagaaga aagaatotaa otgaaaatac daaaaaaaaa aaaaaaaaa															1100
		-: L10:- SEQ ID NO: 2															
		+:211 + LENGTH: 285															
		(J12) TYPE: PRT															
		<pre>:(213): ORGANISM Homo sapiens :(400): SEQUENCE: 2</pre>															
						~ 1	_	~ 1	2.1	-			(T)	-			
	7 Met	-	Asp	Ser		GIU	Arg	Glu	(2.T.D.		Arg	Leu	Inr	Ser	_	Leu	
16			3	31	5	17 - L	T	+	T	10	7	17-1	a	T) -	15	D	
	O Lys	ys	Arg		GIU	мет	Lys	Leu		's Lu	Tys	val	Ser		Leu	Pro	
17		1	C1	20	7)	Can	17 - 1	N 20 00	25	Cam	F 1.50	A	<i>~</i> 1	30	T	F 311	
17	3 Ang	Lys	35	ser	210	Ser	Val	40	sei	ser	Lys	ASP	45	цуѕ	Leu	Leu	
	+ 5 Ala	2.15		Lon	Lou	Lou	λla		- 011	200	2170	(711.0		Thr	Val	Mal.	
17		50	1111	Leu	Leu	Leu	55	Leu	Leu	ser	- y S	60 60	Leu	1111	val	vai	
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	2 Ala		Len	.31 n	31v		His	Ala	G111	Lvs		Pro	Ala	Glv	Δla		
18		014	LCu	3.2.11	85			71.1.4	J 1 (1	90	no a			011	95	327	
	5 Ala	Pro	Lys	Ala		Leu	Glu	Glu	Ala		Ala	Val	Thr	Ala	,	Leu	
18			-1-	100					105					110	2		
18	3 Lys	Ile	Phe	Glu	Pro	Pro	Ala	Pro	Gly	Glu	Gly	Asn	Ser	Ser	Gln	Asn	
18			115					120	1		1		125				
193	l Ser	Arg	Asn	Lys	Arq	Ala	Val	Gln	Gly	Pro	Glu	Glu	Thr	Val	Thr	Gln	
193		130		•			135		-			140					
19	1 Asp	Cys	Leu	Gln	Leu	Ile	Ala	Asp	Ser	Glu	Thr	Pro	Thr	Ile	Gln	Lys	
195	145					150					155					160	
191	7 Gly	Ser	Tyr	Thr	Phe	Val	Pro	Trp	Leu	Leu	Ser	Phe	Lys	Arg	Gly	Ser	
198	3				165					170					175		
200) Ala	Leu	Glu	Glu	Lys	Glu	Asn	Lys	Ile	Leu	Val	Lys	Glu	Thr	Gly	Tyr	
201	Ĺ			180					185					190			
	Phe	Phe		Tyr	Gly	Gln	Val		Tyr	Thr	Asp	Lys		Tyr	Ala	Met	
204			195					200					205				
	Gly		Leu	Ile	Gln	Arg	•	Lys	Val	His	Val		Gly	Asp	Glu	Leu	
201		210					215					220					
	Ser	Leu	Val	Thr	Leu		Arg	Cys	Ile	Gln		Met	Pro	Glu	Thr		
	225	_	_	_	_	230	_				235				- 1	240	
212	Pro	Asn	Asn	Ser	Cys	Tyr	Ser	Ala	Gly	11e	Ala	Lys	Leu	Glu	Glu	GIY	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/507,968B

DATE: 04/13/2001
TIME: 13:20:11

Input Set : A:\09507968 SEQ LIST.txt
Output Set: N:\CRF3\04122001\I507968B.raw

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RAW SEQUENCE LISTING DATE: 04/13/2001
PATENT APPLICATION: US/09/507,968B TIME: 13:20:11

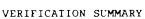
Input Set : A:\09507968 SEQ LIST.txt
Output Set: N:\CRF3\04122001\I507968B.raw

287 Gln Gly Leu Pro Gly Val Gly Leu Thr Pro Ser Ala Ala Gln Thr Ala 35 40 290 Arg 31n His Pro Lys Met His Leu Ala His Ser Thr Leu Lys Pro Ala 55 50 291 60 293 Ala His Leu Ile Gly Asp Pro Ser Lys Gln Asn Ser Leu Leu Trp Arg 7.0 75 296 Ala Asn Thr Asp Arg Ala Phe Leu Gln Asp Gly Phe Ser Leu Ser Asn 297 8.5 90 2+) Asn Ser Leu Leu Val Pro Thr Ser Gly Ile Tyr Phe Val Tyr Ser Gln 10. 105 300 110 302 Val Val Phe Ser Gly Lys Ala Tyr Ser Pro Lys Ala Thr Ser Ser Pro 115 120 125 305 Leu Tyr Leu Ala His Glu Val Gln Leu Phe Ser Ser Gln Tyr Pro Phe 306 130 135 140 308 His Val Pro Leu Ser Ser Gln Lys Met Val Tyr Pro Gly Leu Gln 150 309 145 155 311 Glu Pro Trp Leu His Ser Met Tyr His Gly Ala Ala Phe Gln Leu Thr 170 312 165 314 Gln Gly Asp Gln Leu Ser Thr His Thr Asp Gly Ile Pro His Leu Val 315 180 185 317 Leu Ser Pro Ser Thr Val Phe Phe Gly Ala Phe Ala Leu 318 195 200 321 <210 > SEQ ID NO: 5 322 <211> LENGTH: 244 323 -: 212> TYPE: PRT 324 <213 ORGANISM Homo sapiens 316 -:400→ SEQUENCE 5 317 Met Gly Ala Leu Gly Leu Glu Gly Arg Gly Gly Arg Leu Gln Gly Arg 328 1 5 10 330 Gly Ser Leu Leu Leu Ala Val Ala Gly Ala Thr Ser Leu Val Thr Leu 331 20 25 333 Leu Leu Ala Val Pro Ile Thr Val Leu Ala Val Leu Ala Leu Val Pro 3.5 40 336 Gln Asp Gln Gly Gly Leu Val Thr Glu Thr Ala Asp Pro Gly Ala Gln 55 339 Ala Gl
n Gly Leu Gly Phe Gl
n Lys Leu Pro Glu Glu Glu Pro Glu 70 7.5 8.0 340 65 342 Thr Asp Leu Ser Pro Gly Leu Pro Ala Ala His Leu Ile Gly Ala Pro 85 90 345 Leu Lys Gly Gln Gly Leu Gly Trp Glu Thr Thr Lys Glu Gln Ala Phe 346 100 105 110 348 Leu Thr Ser Gly Thr Gln Phe Ser Asp Ala Glu Gly Leu Ala Leu Pro 115 120 351 Gln Asp Gly Leu Tyr Tyr Leu Tyr Cys Leu Val Gly Tyr Arg Gly Arg 352 130 135 140 354 Ala Pro Pro Gly Gly Gly Asp Pro Gln Gly Arg Ser Val Thr Leu Arg 355 145 150 155 357 Ser Ser Leu Tyr Arg Ala Gly Gly Ala Tyr Gly Pro Gly Thr Pro Glu 358 170 165



Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.



PATENT APPLICATION: US/09/507,968B

DATE: 04/13/2001 TIME: 13:20:12

Input Set : A:\09507968 SEQ LIST.txt

Output Set: N:\CRF3\04122001\I507968B.raw

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